

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Hernandez on 9/1/09.

The application has been amended as follows:

Claim 4 has been replaced with the following: --

4. (Currently Amended) An electronic apparatus comprising:
a casing defining a closed space, the closed space [and] containing electronic components and a pair of speaker units [in the space]; and
[a pair of Speaker units, left and right, located in the closed space of the casing,]
each of the speaker units including a cabinet arranged in the closed space of the casing, a speaker arranged in the cabinet and exposed to the outside of the cabinet, a port which is defined in the cabinet to directly open to the closed space of the casing and through which a sound emitted from the backside of the speaker into the cabinet is radiated outward from the cabinet and into the entire closed space of the casing, and a duct which is arranged in the cabinet and defines a tortuous passage that communicates the rear of the speaker with the port,

the cabinet of each speaker unit having a top face in contact with an inner surface of an outside wall of the casing and a protrusion which protrudes from the top face and passes through an opening defined in the outside wall of the casing,

the speaker being located in the cabinet so as to be exposed to the outside of the casing through the opening of the casing and the protrusion, and the casing having openings through which sounds emitted from the ports of the cabinets into the closed space of the casing and synthesized together in the closed space of the casing are radiated to the outside of the casing. –

Claim 14 has been replaced with the following: --

14. (Currently Amended) An electronic apparatus comprising:

a casing defining a closed space, the closed space [and] containing electronic components and a pair of speaker units [in the space]; and

[a pair of speaker units, left and right, located in the closed space of the casing,] each of the speaker units including a cabinet arranged in the closed space of the casing, a speaker arranged in the cabinet and exposed to the outside of the cabinet, a port which is defined in the cabinet to directly open to the closed space of the casing and through which a sound emitted from the backside of the speaker into the cabinet is radiated outward from the cabinet and into the entire closed space of the casing, and a duct which is arranged in the cabinet and defines a tortuous passage that communicates the rear of the speaker with the port,

the speaker being exposed to the outside of the casing through an opening defined in an outside wall of the casing, and the casing having openings through which

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sounds emitted from the ports of the cabinets into the closed space of the casing and synthesized together in the closed space of the casing are radiated to the outside of the casing,

the casing being a laptop computer, and the speaker units being positioned at left and right corners of a top wall of the laptop computer, respectively, and

the speakers being oriented towards the top wall of the laptop computer and the ports being oriented toward a front wall of the laptop computer. –

Claim 15 has been replaced with the following: --

15. (Currently Amended) An electronic apparatus comprising:

a casing defining a closed space, the closed space [and] containing electronic components and a pair of speaker units [in the space]; and

[a pair of speaker units, left and right, located in the closed space of the casing,] each of the speaker units including a cabinet arranged in the closed space of the casing, a speaker arranged in the cabinet and exposed to the outside of the cabinet, a port which is defined in the cabinet to directly open to the closed space of the casing and through which a sound emitted from the backside of the speaker into the cabinet is radiated outward from the cabinet and into the entire closed space of the casing, and a duct which is arranged in the cabinet and defines a tortuous passage that communicates the rear of the speaker with the port,

the speaker being exposed to the outside of the casing through an opening defined in an outside wall of the casing, and the casing having openings through which sounds emitted from the ports of the cabinets into the closed space of the casing and

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synthesized together in the closed space of the casing are radiated to the outside of the casing,

the casing being a laptop computer, and the speaker units being positioned at left and right corners of a top wall of the laptop computer, respectively, and

the speakers being oriented towards the top wall of the laptop computer and the ports being oriented toward opposite sidewalls of the laptop computer, such that the respective ports are opposed to each other.

2. The following is an examiner's statement of reasons for allowance: the prior art in the record fails to disclose, teach or suggest that a laptop with a pair of speakers that have their back wave being radiated toward the entire closed space of the casing that contains the pair of the speakers and other electronic components as specified in claims 4, 14 and 15. Both Freadman '942 and Freadman '708 show that the back waves are synthesized in a partial casing of the laptop; whereas the present invention uses the entire casing that contains speakers and other electronic components for synthesizing the back wave from the speakers.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ping Lee whose telephone number is 571-272-7522.

The examiner can normally be reached on Wednesday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian C. Chin can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ping Lee/
Primary Examiner, Art Unit 2614

pwl